

ELECTRO-OPTICAL PACKAGE WITH DROP-IN APERTURE

ABSTRACT OF THE DISCLOSURE

5 A drop-in aperture 20, which improves the performance and lowers the cost of electro-optical SLM packages. The disclosed package provides a separate metal light shield (aperture) 20 and antireflective coated cover 33, and positions the aperture 20 inside the package 40 in close proximity to the SLM's 41 surface. This approach further uses an on-chip SLM light shield to define the projected screen border, thereby making 10 the edge definition of the metal drop-in aperture less critical. Therefore, the cover can be mounted well away from the plane of the SLM, which relaxes the defect requirements of the cover and lowers the cost of the overall package. The package of this invention improves the performance and lifetime 15 and lowers the cost of projection display systems. The preceding abstract is submitted with the understanding that it only will be used to assist in determining, from a cursory inspection, the nature and gist of the technical disclosure as described in 37 C.F.R. § 1.72(b). In no case should this 20 abstract be used for interpreting the scope of any patent claims.